

## **LOCATION MAP** SCALE: I" = 500'±

# SITE DEVELOPMENT PLANS

**FOR** 

# **MUG & JUG PROPOSED COMMERCIAL REDEVELOPMENT**

PARCEL IDS: 2507355039, 2507355038, & 2507355040 4162 TWELVE MILE ROAD CITY OF BERKLEY, OAKLAND COUNTY, MICHIGAN

12 MILE ROAD

## **AERIAL MAP**

SCALE: I" = 50'±

A MISS DIG TICKET WAS REQUESTED PRIOR TO CONDUCTING A SURVEY FOR THE SUBJECT PROPERT



PLANS PREPARED BY:



Birmingham, MI · New York, NY · Salem, MA Princeton, NJ · Tampa, FL · Rutherford, NJ www.stonefieldeng.com

555 S. Old Woodward Avenue, Suite 12L, Birmingham, MI 48009 Phone 248.247.1115

## APPLICANT

SELWAN SHINA 6476 ORCHARD LAKE ROAD, SUITE A WEST BLOOMFIELD, MI, 48322 248.207.3110 RSHINA@BAYSFD.COM

						FOR SITE PLAN / SPECIAL LAND USE APPROVAL	FOR SITE PLAN / SPECIAL LAND USE APPROVAL	FOR SITE PLAN / SPECIAL LAND USE APPROVAL	DESCRIPTION	
						af	aí	JDINB	ВУ	l
						04/23/2025	03/1 9/2025	01/14/2025	DATE	
						3	2	_	ISSUE	

### NOT APPROVED FOR CONSTRUCTION

STONEFIELD

MUG & JU



**COVER SHEET** 

C-I

ADDITIONAL SH	ADDITIONAL SHEETS						
DRAWING TITLE	SHEET#						
ALTAINSPS LAND TITLE SURVEY	I OF I						
LIFE SAFETY AND EGRESS PLAN	A-0.1						
ARCHITECTURAL FLOOR PLAN	A-I.I						
ARCHITECTURAL ELEVATIONS	A-0.15 & A-2.4						
OCWRC SANITARY SEWER DETAILS	I & 2 OF 2						
OCWRC STORM DRAIN DETAILS	I OF I						

# PLAN REFERENCE MATERIALS:

**ZONING MAP** 

SCALE: I" = 50'±

**PROJECT** SITE

12 MILE ROAD

GREENFIELD ROAD

TWELVE MILE DISTRICT

GREENINELD DISTRICT

ELLWOOD AVENUE

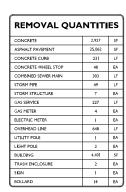
- L'HIS PLAN SET REFRERNCES THE FOLLOWING DOCUMENTS PICLUDING, BUT NOT LIPHTED TO:

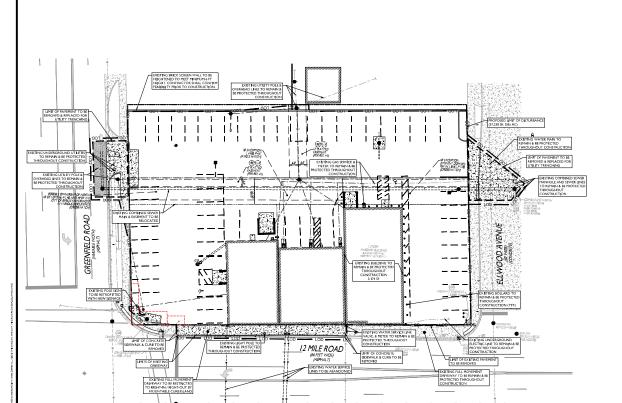
  A TATANES' LAND TITLE SURVEY PREPARED BY A TATANES' LAND TITLE SURVEY PREPARED BY A TATANES' LAND TITLE SURVEY PREPARED BY A DESIGN LLC. DATED 10/10/20/24

  ACRIENTECTURAL PLANS PREPARED BY ADD DESIGN ACRIBICATION APPERAL PROPERTY OF THE STATE OF CONSTINUED ON THE STATE OF CONSTITUENT OF STATE OF STATE OF CONSTITUENT OF STATE OF STA

DRAWING TITLE	SHEET#
COVER SHEET	C-I
DEMOLÍTION PLAN	C-2
SITE PLAN	C-3
GRADING PLAN	C-4
STORMWATER MANAGEMENT PLAN	C-S
UTILITY PLAN	C-6
LIGHTING PLAN	C_7
LANDSCAPING PLAN	C-8
LANDSCAPING DETAILS	C.9
COLUMN DETAILS	0.104.0.11

SHEET INDEX







### SYMBOL

### DESCRIPTION

FEATURE TO BE REMOVED / DEMOUSHED

EXISTING CONCRETE TO BE REMOVED

ALL SITE FEATURES WITHIN THE LIMIT OF DISTURBANCE INDICATED ON THIS PLAN ARE TO BE REMOVED / DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCRENED

BETWEEN THIS PLAN AND FIELD CONDITIONS



Know what's **below** Call before you dig.





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MUG & JUG

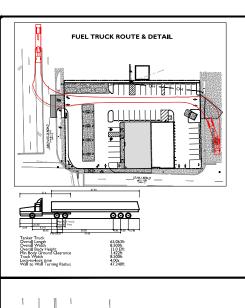
PROPOSED COMMERCIAL REDEVELOPMENT

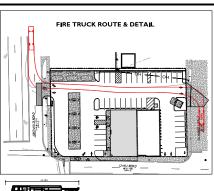


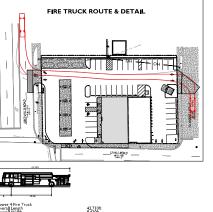


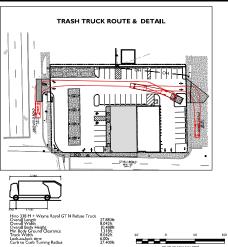
I" = 20" PROJECT ID: DET-24024

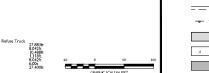
DEMOLITION PLAN





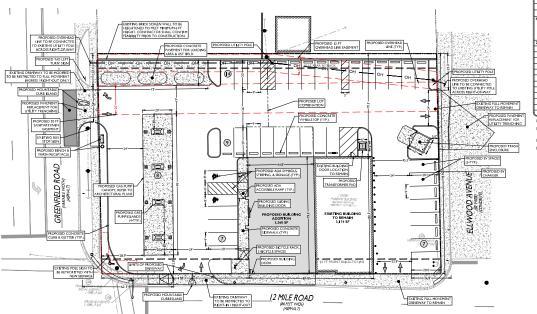








	Å
SYMBOL	DESCRIPTION
	PROPERTY LINE
	SETBACK LINE
	PROPOSED EASEMENT
	PROPOSED CURB
=====	PROPOSED FLUSH CURB
	PROPOSED MOUNTABLE CURB
<del>→ o</del> o	PROPOSED SIGNS / BOLLARDS
	PROPOSED BUILDING
.44	PROPOSED CONCRETE



F

LAND US	E AND ZONIN	G
PARCEL IDS: 250735	6039, 2507355038 & 250	7355040
GATEWA	AY DISTRICT (GD)	
ROPOSED USE		
RESTAURANT	PERMITTED USE	
RETAIL STORE	PERMITTED USE	
AUTOMOBILE SERVICE STATION	SPECIAL USE	
ONING REQUIREMENT	REQUIRED	PROPOSED
NIMUM LOT AREA	17,000 SF	34,638 SF (0.80 AC
MINIMUM LOT WIDTH	130 FT	150.0 FT
MAXIMUM BUILDING HEIGHT	40 FT	< 40 FT
MINIMUM FRONT BUILD TO LINE	10 FT	0.0 FT (NC)
ACADE ON BUILD-TO-LINE	75%	100% (NC)
NIMUM SIDE YARD SETBACK	OFT	5.0 FT (V) <sup>(b)</sup>
MINIMUM REAR YARD SETBACK	IO FT	70.1 FT (NC)
DRIVEWAY INTERSECTION SPACING	30 FT	26.8 FT (V)
DRIVEWAY LOT LINE SPACING	20 FT	20.0 FT (NC)
NIMUM DRIVEWAY WIDTH	22 FT	22.9 FT (NC)
MAXIMUM DRIVEWAY WIDTH	30 FT	24 FT
SERVICE STATION SPACING®	500 FT	> 500 FT

- (V) PER § 138-53, TRASH ENCLOSURE (ACCESSORY STRUCTURE) IS NOT PERMITTED IN A SIDE YARD
- (NC) NO CHANGE
- § 138-429(b).(1) AUTOMOBLE FILLING STATION SHALL NOT BE LOCATED NEARER THAN 500 FT TO A SCHOOL, CHURCH, PUBLIC PARK OR AUDITORIUM



### **SERVICE STATION SPACING**

SCALE: |" = 250'±

OFF-S	TREET PARKING REQUIR	EMENTS
CODE SECTION	REQUIRED	PROPOSED
§ 138-129	RESTAURANT:	37 SPACES
	I SPACE PER 75 SF OF UFA*	8 PUMP SPACES
	(702 SF)(0.7)(1 / 75 SF) = 7 SPACES	TOTAL: 45 SPACES
	GAS STATION WITH CONVENIENCE	
	6 SPACES PER 1,000 SF OF UFA*	
	+ I SPACE PER PUMP + 2 SPACES	
	(6,032 SF)(0,7)(6 / 1000 SF) = 25 SPACES	
	+ (8 PUMPS)(1 / 1 PUMP) = 8 SPACES	
	TOTAL: 7 + 25 + 8 + 2 = 42 SPACES	
§ 138-220.(a)	90" PARKING DIMENSIONS:	9 FT X 20 FT
	9 FT X 20 FT W/ 24 FT AISLE	W/ 24 FT ABLE
§ 138-256.(b)	LOADING	12 FT X 75 FT
	12 FT × 30 FT	

(\*) § 138-217.(b) - USABLE FLOOR AREA SHALL BE ASSUMED TO BE 70% OF TOTAL FLOOR AREA

### GENERAL NOTES

- ONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND DOS OF CONSTRUCTION.

  ONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE RBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE NO RE SHITTY WHO HAS AUTHORIZED THE WORK WITHOUT WRITTIN CONSENT FROM THE OWNER OF THE MINATE RTY.
- DMENTY.

  CONTRACTOR & RESPONSIBLE TO RESTORE ANY DAMAGED OR DEMNISO STRUCTURE OR SITE FRATURE THAT IS DENTIFIED TO ANY ON THE PANY ST. ALL REPAIRS SHALL USE NEW MATERIALS. RESTORE THE FRATURE TO ITS EXISTING CONDITION AT THE MITACCOMES CREWING.



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PROPOSED ASPIHALT

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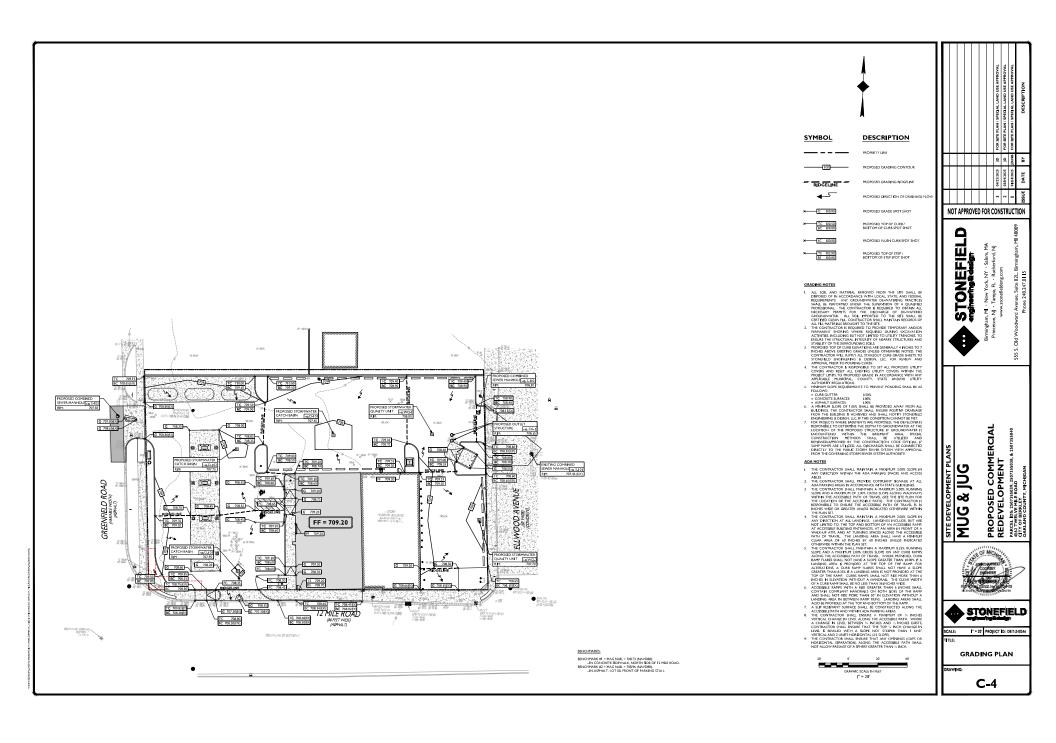
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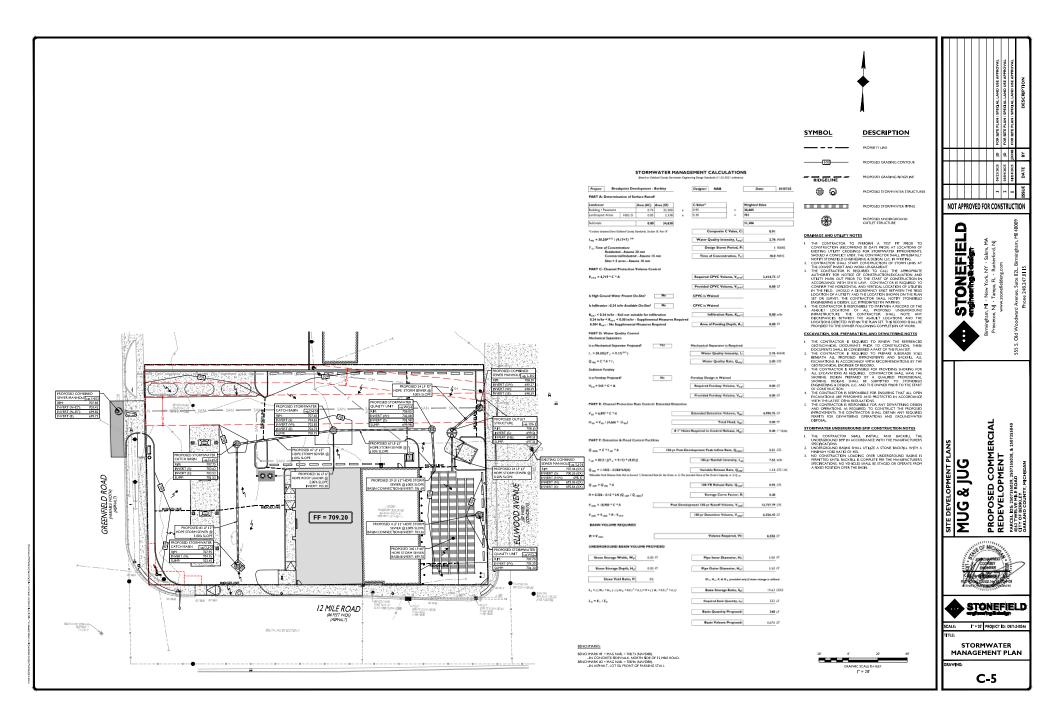
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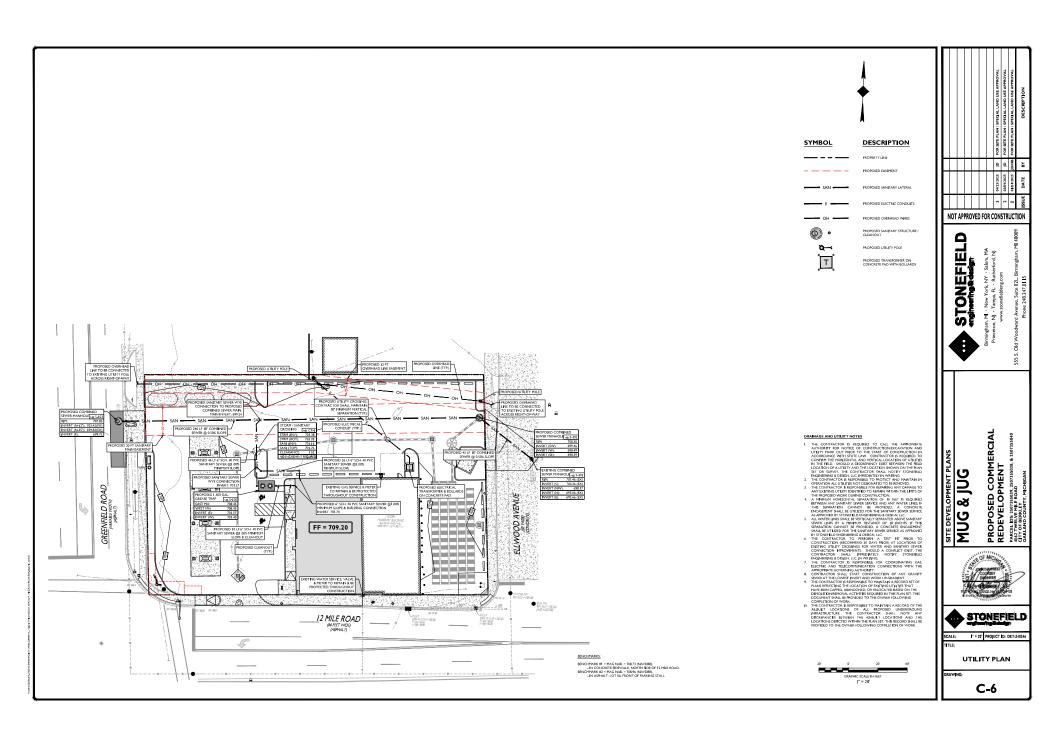
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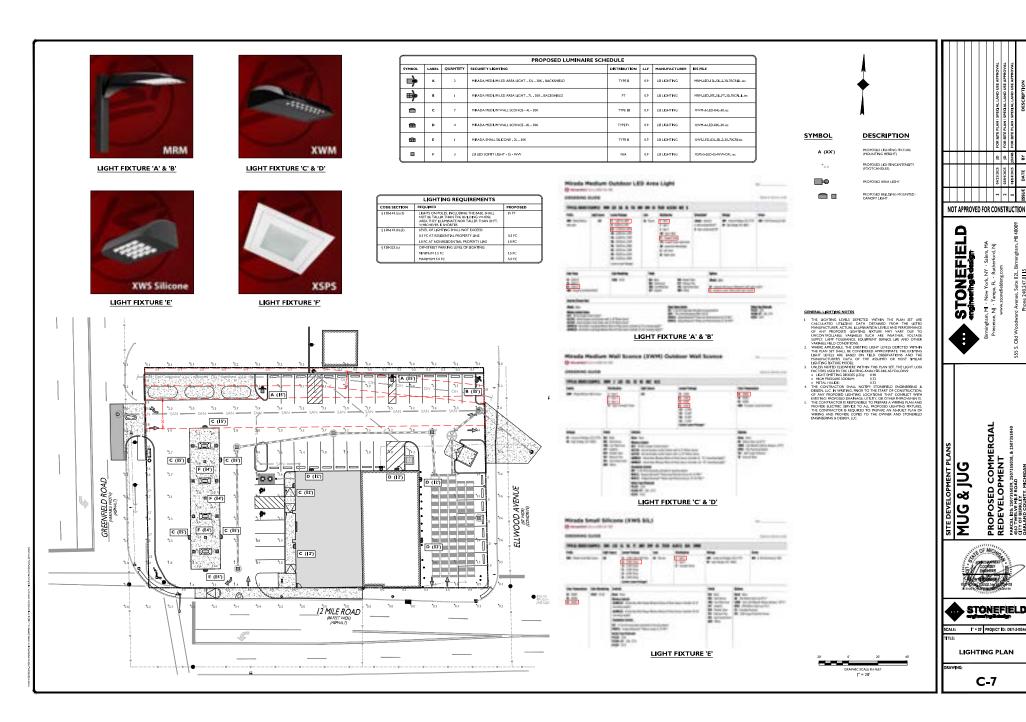


SITE PLAN











	LANDSCAPING REQUIREMENTS							
CODE SECTION	REQUIRED	PROPOSED						
§ 138-222.(c)(2)c.	PARKING LOT SCREENING WHERE A PARKING LOT ABUTS A RESIDENTIAL DISTRICT: 6 FT TALL MASONRY WALL REQUIRED	EXISTING WALL TO BE MODIFIED						

PLANT SCHEDULE										
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER				
DECIDUOUS TREES										
$\oplus$	GLE	1	GLEDITSIA TRIACANTHOS INIERMIS "SHADEMASTER"	HADEMASTER' LOCUST 2'-2.5' CAI EVERGREEN TREES SCOPULORUM BUILE ARROAM BINEER		888				
EVERGREEN TREES										
(I)	BLU	14	JUNPERUS SCOPULORUM 'BLUE ARROW'	BLUE ARROW JUNIPER	6-8 HT	888				
3,4°	VIR	6	JUNPERUS VIRGINIANA J.N. SELECT GREEN'	EMERALD FEATHER EASTERN REDCEDAR	6'-8'HT	888				
			SHRUBS							
$\odot$	COR	6	CORNUS STOLONIFERA 'FARROW'	ARCTIC HRE RED TWIG DOGWOOD	18" - 24"	POT				
0	PHY	5	PHYSOCARPUS OPULFOLIUS LITTLE DEVL'	LITTLE DEVIL DWARF NINEBARK	18" - 24"	POT				
			EVERGREEN SI	HRUBS						
•	LE	12	LEX GLABRA 'COMPACTA'	COMPACT INKBERRY	18" - 24"	POT				
0	TAX	6	TAXUS X MEDIA 'DENSFORMIS'	DENSE ANGLO-JAPANESE YEW	18" - 24"	POT				
			GROUND CO							
	BAR	63	JUNPERUS HORIZONTALIS BAR HARBOR'	BAR HARBOR CREEPING JUNIPER	I GAL	POT. 36" O.C.				

NOTE: F ANY DISCREPANCES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.



# Know what's **below Call** before you dig.

EREATION NOTE:
REGISTRO CONTRACTOR TO PROVIDE A DEEDN FOR AN IRRESTATION
STEPS SEMANTING FLARITING SIDE RICH LAWA AREA PIREA TO
STEPS SEMANTING FLARITING SEDE RICH LAWA AREA PIREA TO
LANDSCARE DISEASE FOR SERVEY AND ARROWAL WHISE FORSILLE
FRIENDED. AND OPHIES WATER CONSERVATION TO TROVINGES
AND THE PROPERTY OF THE WATER CONTRACT OF THE PIREA
VISIT PRACENE ON SITE CONTACT. WATER PRESENTE ANAPLABLE
ROWAND IN 1 HE ROSE REQUIRED ROWSE OF BOOTHER HAVED
TO SHOW ALL VANCES, PIPELS, READS, MICCIDION REPORTION, RETERS,
CONTRICULES AND SEDEW WITHER HAVEDON AREA.

### LANDSCAPING NOTES

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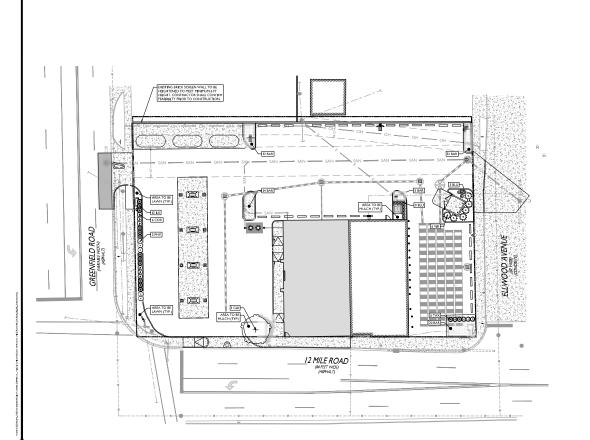


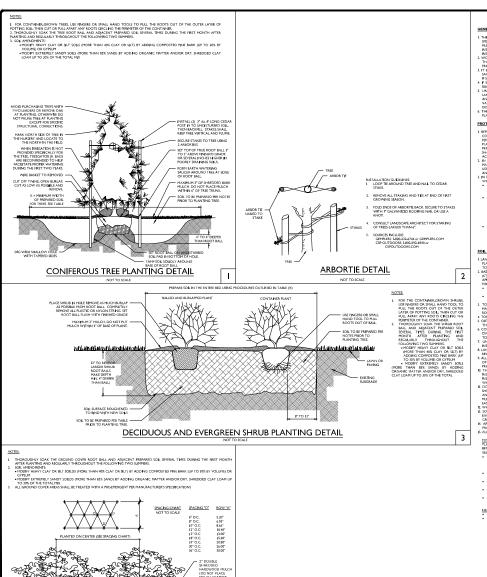
PROPOSED COMMERCIAL
REDEVELOPMENT
MAKEL IDS. 250735501, 8, 250735504
CTO, 70 BRIENEL 18 FOAD
OAKLANG COUNTY MICHIGAN



LANDSCAPING PLAN

MUG & JUG





4

GROUND COVER/PERENNIAL/ANNUAL

PLANTING DETAIL

### GENERAL LANDSCAPING NOTES:

- THE AMOREM CONTROL TO SHALL HANDER ALL PATERIALS AND REPORT ALL YORK IN ACCORDANCE WITH THEIR AMOREM CONTROL TO SHALL THE AMOREM CONTROL TO SHALL THE AMOREM CONTROL OF CONTROL THE AMOREM CONTROL TO CONTROL THE AMOREM CONTROL TO CONTROL THE AMOREM CONTROL THE A

- IF SO REQUESTED.

  IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR B TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND

- BEODECIONO OF ENTIRE VIGIETATION NOTES.

  SERVICE COMPANIE OF OR. ALL DETIRE VIGIETATION WHO COULD BE MINISTED OF THE RECORDS CONSTRUCTION ACCURATE WAS A STREET OF THE RECORD ACCURATE WAS A STREET OF THE RECORD ACCURATE WAS ASSESSED. THE RECORD ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. THE RECORD CONSTRUCTION ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. THE RECORD ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. THE RECORD ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. THE RECORD ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. THE RECORD ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. AND ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED. AND ACCURATE WAS ASSESSED ACCURATE WAS ASSESSED.

- LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIHED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE
- TO NOTIFICATION OF RISULTS.

  BASED ON SOIL THE STREAMS AND USET THE RATES OF UPE AND FERTILIZER THAT SHALL BE HISSED INTO THE TOP SIX INCHES (6) OF DISCOL. THE UPE AND RESTLIZER ANTES RECOVEDED WITHIN THE "SEED SPECIFICATION OR SOLD SPECIFICATION" OR SOLD SPECIFICATION OR SHAPPING AND RESEASE, ADJUST THE "POSIGI, AZ SPANDOPHINE AND FOR GROUP REPOSIGE SOLL", IF A SOLD FORM AND PRINCIPAL SEED RESEASE, ADJUST THE "POSIGI, AZ SPANDOPHINE AND FOR BOOK SPECIFICATION" OR STATEMENT OF THE SECRETARY ADJUST THE POSIGI, AZ SPANDOPHINE AND FOR SECRETARY ADJUST THE POSIGINA ADJUST THE DILLOWS:

  MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT), BY ADDING COMPOSTED PINE BARK (UP TO 30% BY
- DEFINION DO SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM.
  THE TOTAL MAY.

- CONTRACTOR DESIGNATION OF THE THEORY OF THE THE THEORY OF THE THE THEORY OF THE T

IRRIGATION DURING ESTABLISHMENT							
SIZE AT PLANTING	RRIGATION FOR VITALITY	IRRIGATION FOR SURVIVAL					
< 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR TWO TO THREE MONTHS					
2"-4 CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR THREE TO FOUR MONTHS					
4 >" CALIPER	DALY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE	TWICE WEEKLY FOR FOUR TO HVE					

WHEN IRRIGATING FOR VITAUITY, DELETE DALY BRIGATION WHEN PLANTING IN WINTER OR WHEN PLANTING IN COOL CUMATES, ESTABLISHMENT TAKES THEEE TO FOUR MONTHS FER INCH TRUNK CAL FER, NEVER APPLY REGIGATION IF THE SCILE SATURATED.

3. WHEN IRRIGATION FOR SURVIVAL TREES TAKE MUCH LONGER TO ESTABLISH THAN REGULARLY BRIGATED TREES. IRRIGATION MAY BE REQUIRED IN THE NORMAL HOT, DRY PORTIONS OF THE FOLLOWING YEAR.

### PLANT QUALITY AND HANDLING NOTES:

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI 266 L2004) OR LATEST REVISION AS PREUSHED SY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
  3. HALL CASS EXTANCIAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER
- COMPON NAMES.
  ALI PLANTS SHALL BE OF SELECTED SPECIPIN CIVALITY, DECEPTIONALLY HEAVY, TEGHTLY FINIT, 50 TRAINED OR FAVORED IN THREE CONJUMENTS AND ANY ADMINISTRATION OF A WARRED IN THREE CONJUMENTS AND ANY ADMINISTRATION AND ANY

- AND THE PRICE OF THE WORLD BY AND THE PRICE OF THE PRICE
- 5 ALL RANT PARSIBLE, SHALL BE INTELLED IN ACCOUNTAGE WITH THE CORRESPONDED LANGUAGE RANK-OF PARSITION OF CHARLES OF THE PARSIBLE PARSIBLE

- SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON
- ILS THE FOLICIONNE TRES ARE SECRETIES TO TEMPORANT PROCE AND SHALL NOT BE FLANTED CURRIGH THAT SEADON CONTRIBUTIONS OF THE PROPERTY OF THE PRO

- AS APPROVED BY THE LOCAL YEAR/DEALBY.

  AS PACED WAS THE LOCAL YEAR/DEAL BERN IMPEDIATELY ATTRIVAL RANTS HAVE BEEN SATERACTORILY INSTALLED.

  IN HAINTRINANCE SHALL INCLUDE BUT NOT BE LIMETO TO, BERACKIOS PILLOT THAT HAS BEEN DEPARCED BY ERSORN ON OTHER PEARS, REPRIMED AND RESPHON WATER BRISCO SEALERS, MANIFARMS TARES AND OUT OF POLEMBLEY BIQUIES, WATER BRISCO, DEAL SALVERS, MANIFARMS, CHEMINAL SHALL S
- PRICEIPING ANY CITES WORK REQUIDED TO LETH THE AMAZITIS A HANGHY CONSTRUCT.

  JOHNAL GOAS AND ART A REQUIA IN TREASE TO GUE THE GOAS HEAVER FOR HOS CELEBROT HERE NOTHED TO THE CHIEF AND ART AND ART A REQUIA IN TREASE TO THE CHIEF AND ART A REGIONAL TO A HANGE A LOT DESCRIPTION CHIEF AND ART AND ART AND ART AND ART A REGIONAL TO A HANGE A LOT DESCRIPTION CHIEF AND ART AND ART A REGIONAL TO A HANGE A LOT DESCRIPTION CHIEF AND ART AND ART A REGIONAL TO A HANGE AND ART A REGIONAL TO A REGIONAL TO A CONTROL THE ART A REGIONAL THE ART A REGIONAL TO A CONTROL THE ART A REGIONAL THE ART A REGIONAL
- FULCHING. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 96-DAY MAINTENANCE PERIOD, A SEPARATE CONTRACT SHALL BE ESTABLISHED.
- CONTRACT SALL SE ETABLISHO.

  SE MANICAPI CONTRACT SALL SE ETABLISHO.

  SE MANICAPI CONTRACTOR SHALL WITH A NEW PARKETS FOR THE OF EVERTAL MAN INCORPORATE RECEIPED SALV
  THE LANGEAGE CONTRACTOR SHALL REMOVE ITS PERMANENT OF CONTRACT.

  THE LANGEAGE CONTRACTOR SHALL REMOVE ITS PERMANENT SHALL SHALL

### PLANT MATERIAL GUARANTEE NOTES:

- 1. THE MADICUPE CONTRACTOR SHALL COMMITTE ALL RANT MATERIA FOR A FREED OF ONE TRACT (T.R.) FROM APPROVAL INTERPRETATION OF THE PROPERTY OF TH

- I. SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNFORM IN THICKNESS, AND DREED OF WEEDS DISEASE, AND DREED

- THE OF VIEWS CRAWS, AND PITS?

  SEED ON SOO MAN, IN A MICHAELD ROPA A RECOGNIZED DEPRESENTS AND SHALL BE COPPOSED OF THE PIX ON BLIDD

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IERCIAL PROPOSED COMMEI REDEVELOPMENT PARCEL IDS. 280735803, 8.2 4163. TWELVE MILE ROAD GITY OF BERKLET ANALAND COUNTY, MICHIGAN

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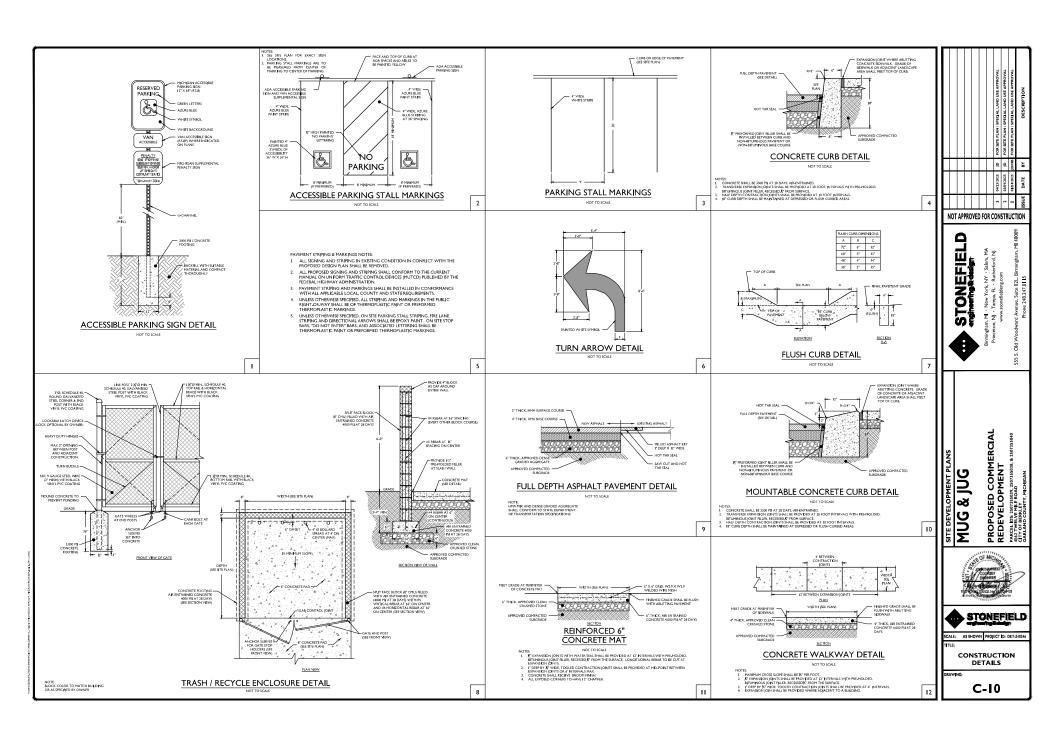


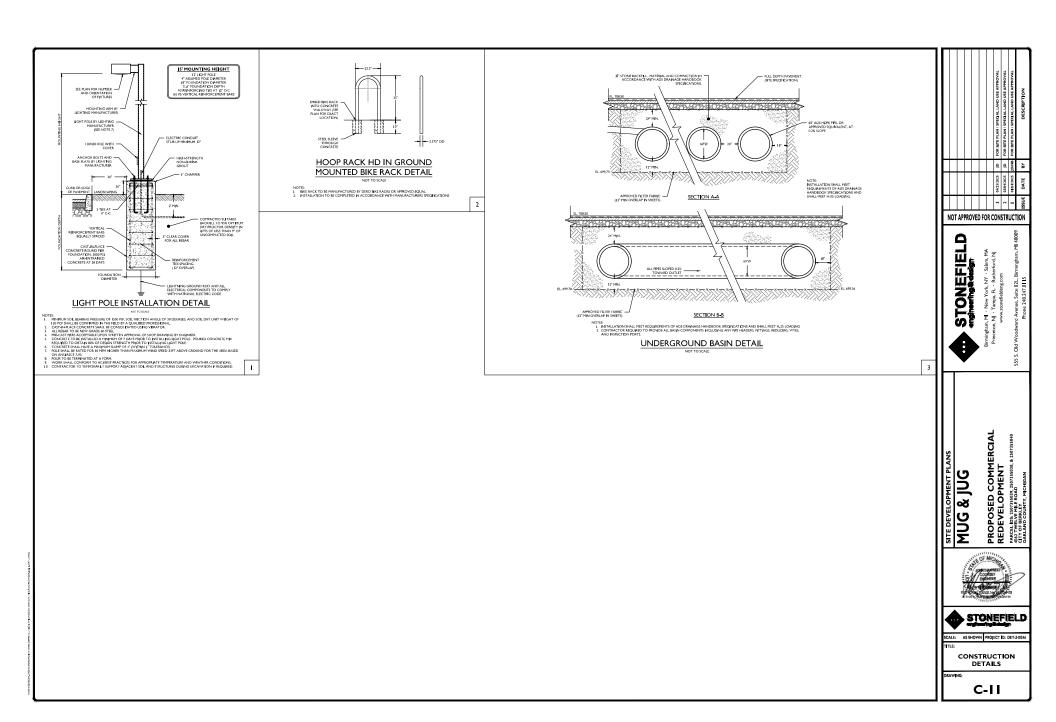


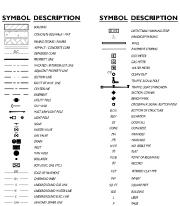


SCALE: AS SHOWN PROJECT ID: DET 24024

LANDSCAPING DETAILS







### PRICE W SECTIONS OF CONCENTRAL (ANGLENATION) NOW RELITY LUC NOW AND THE ROAD THE WAST I PRICE NOW OF CONCENTRAL (ANGLE NATION) THE WAST I PRICE NOW OF CONC 6 Û GREENFIELD F 2 7 \*7864 MAIOR CONTOUR × mm GNADE SPOT SHOT × mm TOP OF CURB SHOT YELLOW ONE O ROAD ×mu Jun -W- IC ISSU BOTTOM OF CURB SHOT LOT 42 PER REF. (IV) TW (SSS) TOP OF WALL SHOT PARCEL IN 25-07-355-040 JAME REALTY, LLC 4138 WEST 12 MILE ROAD SURVEY NOTES: BLUE LINE TELLOW LINE AND THE SURVEY AND THE BOUNDARIES SHOWN HERION ARE THE RESULT OF AN ACTUAL FIRED SURVEY PERCENTED ON STETEMER 11, 2024, BASED ON AVAILABLE MASS AND DEEDS OF RECORD, AND HYBOXICAL PURDINGS. THE SURVEY IS SUBJECT TO ALL EASEMENTS, BIGHTS OF WAY AND AGREEMENTS OF RECORD THAT A TITLE SEARCH MAY DISCLOSE. NOR WHENEVER ELEC MH RM=709.00 130 63" (M) 130,00" (P) WATER MIN AND CONTROL OF AND CO THIS SURVEY IS VALID ONLY WHEN A DIGITAL SEAL IS AFFIXED HERETO. THE THE CONCURSIONS IN THE SURVEYOR IS NOT QUALIFIED TO IDENTIFY ENVIRONMENTAL CONDITIONS OR THE PRESENCE OF ASSENCE OF WETLANDS. 12 MILE ROAD THE CERTIFICATION SHOWN HEREON IS NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. GRACING FASHENT AND THE STATE OF T (ASPHALT) . + . . – . . – . . – . . – . . – . . – . . – . .

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555 S. Old Woodward Avenue, Suite 12L, Birmingham, MI 48009

### ALTA/NSPS LAND TITLE SURVEY

### MAP OF SURVEY OF:

SOUTHWEST 1/4 OF SECTION 7, TOWN | NORTH, RANGE || EAST PARCEL: 12-07-135-03 (4)38 WEST || Z MILE ROAD) PARCEL: 12-07-135-039 (4)42 WEST || Z MILE ROAD) PARCEL: 12-07-135-040 (4)50 WEST || Z MILE ROAD) CITY OF BERKLEY OAKLAND COUNTY, MICHIGAN

2	[0/]0/24	RJH				ADDITIONAL UTILITY INFORMATION		
	09/19/24	MVZ	AG	09/11/24	JN	FOR ISSUE		
ISSUE	DATE	DRAFT BY	CHECK BY	FIELD DATE	FIELD CREW	DESCRIPTION		

THE FELDWORK WAS COMPLETED ON SEPTEMBER 11, 2024

ROBERT E. HORNYAK, PS MICHIGAN PROFESSIONAL SURVEYOR No. 4001 044286

SCALE: |"=20" PROJECT ID: DET-240246 SHEET: | OF |

SCHEDULE B - PART II EXCEPTIONS: 4138 12 MILE ROAD AND 4150 12 MILE ROAD

ATA NATIONAL TITLE GROUP, LLC, BSUING OFFICE FILE NUMBER 63-24928392-SCM, COMMITMENT DATE SPETEMBER 11 2024

94. COMPANETS, CONDÉDIOS AND RETRÍCTIONS AND OTHER PROVIEDOS BUT OMÍTTINO RETRÍCTIONS E NAY, BASID ON BACE, COLOR BEEFON SIX, HANDEAN FAMILLA STATES OR RACE SHA NO LEBER A FACE HELD ACADA COLORY DESCRIPS (LEBER SHA PORCE EL LIBER SIR, PAGE SHA, AND LIBER A HE, PAGE HELD ACHADO COLORY DESCRIPS (LEBER SHA PORCE EL LIBER SIR, PAGE SHA, AND LIBER A HE, PAGE HELD ACHADO COLORY DESCRIPS (LEBER SHA PORCE EL LIBER)

(BA) HIGHWAY EASEMENT IN FAVOR OF THE BOARD OF ROAD COMMISSIONERS FOR THE COUNTY OF OAKLAND RECORDED IN LIBER STERR, PAGE 415, OAKLAND COUNTY RECORDS. (SHOWN)

(I) EASEMENTS OVER SUBJECT PROPERTY AS SHOWN ON THE PLAT OF ELLWOOD HEIGHTS SUBDIVISION AS RECORDED IN LIBER 23, PAGE 19 OF PLATS, OAKLAND COUNTY RECORDS. (SHOWN)

SCHEDULE B - PART II EXCEPTIONS: 4162 12 MILE ROAD

(98.) EASEMENT(S) AND/OR SETBACK LINES AS DISCLOSED BY THE RECORDED PLAT. (SHOWN)

(6B) TRAFFIC SAFETY AND SKINAL EASEMENT GRANTS TO BOARD OF COUNTY ROAD COMMISSIONERS OF THE COUNTY OF CAKLAND, AS DISCLOSED BY INSTRUMENT RECORDED IN UBER 42961, PAGE 541, (84-00-04)

PARCEL DESCRIPTION:
ATA NATIONAL TITLE GROUP, LLC, ISSUING OFFICE FILE NUMBER 63-24938392-8CM, COMMITMENT DATE

THE LAND IS DESCRIBED AS FOLLOWS: SITUATED IN THE CITY OF BERKLEY, COUNTY OF OAKLANI STATE OF MEHIGAN:

LOTS 39, 40, 41, 42, 43, 44 AND EAST 5 FIET OF LOT 45, EXCEPT THE NORTHERLY 18 FIET OF EACH LOT AND LOT 145, ELLWOOD HEIGHTS SUBDIVISION, AS RECORDED IN LIBER 23, PAGE 19 OF PLATS OAKLAND COUNTY RECORDS.

PARCEL DESCRIPTION:
MICHIGAN ALLED TITLE AGENCY LLC, ESUING OFFICE FILE NUMBER 24-102932-29, COMMITMENT DATE.
ALIGNETS AS THE LAND REFERRED TO HEREN BELOW IS SITUATED IN THE COUNTY OF OAKLAND, STATE OF MICHGAN AND IS DESCRIBED AS FOLLOWS:

N 88°22'46" E (M) \$ 88"54" E (P)

12

SITUATED IN THE CITY OF BERKLEY, COUNTY OF OAKLAND, AND STATE OF MICHIGAN, FURTHER DESCRIPTO AS HICHKAN ALIJED TITLE AGENCY LLC, ISSUING OFFICE FLE NUMBER 24-102932-29, COMMITMENT DATE: AUGUST 8: 2024 WEST 15 FEET, EXCEPT THE NORTHERLY IS FEET, OF LOT 45, ALL OF LOTS 46 THROUGH 50, ELLWOOD HIGHTS SUBDIVISION AS RECORDED IN LIBER 23, PAGE 19 OF PLATS, DAKLAND COUNTY RECORDS.

TOTAL LAND AREA 32,017 SQUARE FEET± OR 0.735 ACREs± TOTAL = 57 SPACES

AREA NOTES

BEARINGS ARE REFERENCED TO THE MICHIGAN STATE FLANE COORDINATE SYSTEM (NADBI) SOUTH ZONE, ELEVATIONS SHOWN HERION ARE REFERENCED TO THE NORTH-AMBRICAN VERTICAL, DATUM OF 1980 (NAVO 98), ISTABLISHED VIA RTK, GROONSHALDING, OMENIA, DEPARTMENT OF TRANSPORTATION CONTINUOUSLY OMENIA, DEPARTMENT OF TRANSPORTATION CONTINUOUSLY OMENIA, DEPARTMENT SYSTEM (MODY CORS).

THE ADDRESSES FOR THE PARCELS SHOWN ON THIS SURVEY ARE 4138. 12 MILE ROAD, 4150. 12 MILE ROAD, AND 4162. 12 MILE ROAD, BERKLEY, MI. 48672. [FROM TITLE

BY GRAPH C PLOTTING ONLY, THE PROPERTY IS 'N ZONE X (UNSHADED) (AREA OF MINIMAL PLOOD HAZARD) OF THE PLOOD INSURANCE RATE MAP, COPPLINITY NO. 260292, MAP NUMBER: 26125C0339F WHICH BIAINS AN EFFICITY DATE OF SIPPLIMEN 26, 2006.

A PLAN ENTITLED "ELLWOOD HEIGHTS, A SUBDIMISION OF A PART OF THE SOUTHWEST 1/4 OF SECTION 7 TOWN I NORTH, RANGE II EAST, ROYAL OAK TOWNSHIP (NOW CITY OF BERKLEY). COLONIA MICHIGAN'D DATED JINE OB, 1920 AND MECORDED IN LIBER 23, PAGE 19 OF PLATS, OAKLAND COUNTY RECORDS.

A TITLE COMMITMENT ISSUED BY ATA NATIONAL TITLE GROUP, LLC, ISSUING OFFICE FILE NUMBER 63-24928392-5CM, COMMITMENT DATE: SPITEMBER 11, 2024.

A TITLE COMMITMENT ISSUED BY MICHIGAN ALLED TITLE AGENCY I.C. ISSUING OFFICE FILE NUMBER 24-102932-29. COMMITMENT DATE: AUGUST 8, 2024.

BENCHMARK #1 = MAG NAIL = 70873 (NAVDBB).
IN CONCRETE SIDEWALK, NORTH SIDE OF 12 MLE ROAD.
BENCHMARK 12 = MAG NAIL = 70854 (NAVDBB).
IN ASPHALT, LOT SO, FRONT OF PARKING STALL.

FLOOD NOTE:

SURVEY REFERENCES:

EXISTING STRIPED PARKING

# COS COS KOTTS \_\_\_ GRAPHIC SCALE IN FEET [" = 20"

PARCE: 25-07-255-03/ (2461 ELLWOOD AVEN IN

TO THE PROPERTY OF THE PROPERT

10

O (A) Z PLATTED EASEMENT PRES REC. AT

X SAW E

COMMED STAFF

pagg!

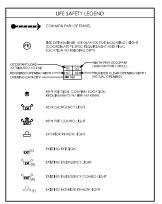
3. M

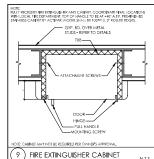
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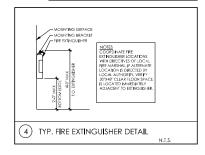
10

HIGHWAY EASEMENT ( \$5000 P.44 BASHESS SIGN PAGE A POLICE CONTROL POLICE CONTROL POLICE

78.54







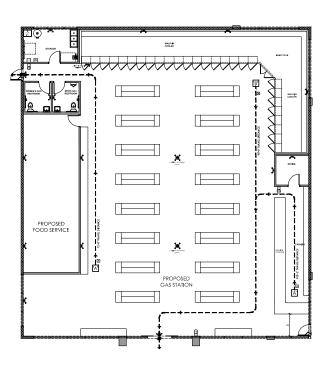


		NOT		Х					
Α	MIN 44"	PATH OF	EGRESS	SHALL BI	UNOBS.	TRUCTED	AT ALL TW	ES.	

EYED NOTES X	ACCESSIBILITY PLAN NOTES:
1 GC, TO FURNISH & INSTALL NEW PIPE EXTINGUISHERS AS RECID BY LOCAL CODES. WHEN MULTING AGAINST TO DOOR CREMING MARTAR 1º CUGAR TO DOOR DEPING FOR ALL COCATION, MOUNTING HERHT, & QUANTITY BY BEEF INSPECTOR, GC, TO VERBY FIRE MASSHALL IRECURSIBILITIEST FOR INSPECTIONS.	1. AT LEAST 5% OF ALL FIXED SEATING OTTABLES IN A PUBLIC SPACE SHALL COMPLY WITH BUILDING CODE.
FIRE INSPECTOR, G.C. TO VERBY FIRE MARSHALL REQUIREMENTS FOR INSPECTION 8. TAGGING REFER TO FIRE EXTINGUISHER CABINET DETAIL 49 AND M ON THIS SHEET FOR ADDITIONAL INFORMATION, DO NOT EXCELL 75-07 OF TRAVILL ALONG EXTES FROM	2. ABLES SHALL HAVE A MINIMUM CLEAR WIDTH OF 44 INCHES.
AREAS.	3. SERVICE COUNTER SHALL BE ACCESSIBLE.
	ACCESSIBILITY PLAN LEGEND:
A DIRECTOR OF ECRESS SHALL BE UNODSTRUCTED AT ALL TIMES.	

**3** 

TYPICAL CLEAR WHEELCHAR FLOOR SPACE WHERE REQUIRED,			
	EG	RESS PATHS	
	EXIT	EXIT PATH DISTANCE	
	'A'	TOTAL PATH LENGTH - 103"-3"	
	'B'	TOTAL PATH LENGTH - 95"0"	





ADG DESIGN STUDIO 189 E. BIG BEAVER ROAD SUITE 200 TROY, MICHIGAN 48083

P. 248-254-3834 W.ABRODESIGNGROUP.COM

MUG & JUG GAS STATION

- BUILDING SHELL & INTERIORS -

4162 TWELVE MILE ROAD, BERKLEY, MI, 48072

SHEET TITLE:

LIFE SAFETY AND EGRESS PLAN

DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY

DATE:	ISSUE:	
03.20.25	SPA	
		_
DESIGN GRI MCOPPED, R ANY FORM OF TO BE ASSIGN	ARE THE EXCLUSIVE PROPERTY OF AI JUP, INC. THESE PLANS ASE NOT TO PROCOUCIDE. CHANGED OR COPPE MANNER WHATSDEVER. NOR ARE ED TO ANY THIRD PARTY WITHOUT F OF THE EXPRESS WHITTEN PROMISSION.	BE NN THEY

PROJECT NO:

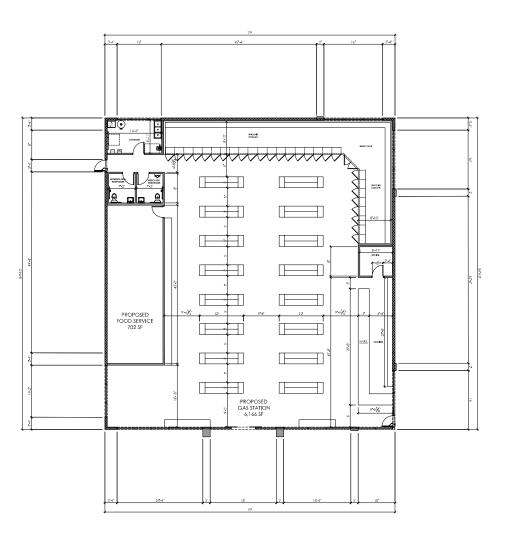
091724

SHEET NO:

O COPYRIGHT 2025 ABRO DESIGN GROUP, INC.

A-0.1





north

FLOOR PLAN

1/8" = 1'-0"

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FLOOR PLAN KEY NOTES:

# In. Burnshed C-endcx exterior structural wall - 12 d.

Glass in Black and Opera aluminum frame first Cook.

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P. 248-254-3834 W.ABRODESIGNGROUP.COM

### PROJECT:

MUG & JUG GAS STATION

- BUILDING SHELL & INTERIORS -

4162 TWELVE MILE ROAD, BERKLEY, MI, 48072

### SHEET TITLE:

FLOOR PLAN

OO NOT SCALE DRAWINGS

DATE: ISSUE:
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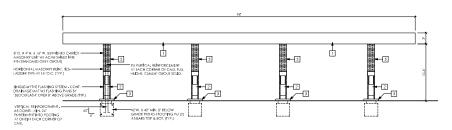
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EAST AND WEST ELEVATION AT PUMP CANOPY SCALE: 1/8" = 1'-0"

	PUMP CANOPY KEY NOTES:
1	CANOPY OVERHANG, ARTWORK/ BRANDING BY OTHERS. OWNER WILL PROVIDE, VENDOR WILL PROVIDE THERE OWN STRUCTURAL COLUMNS AND FOOTINGS AS THIS IS NOT PART OF THESE PLANS.
2	GAS PUNIPS BY OTHERS.
3	CURB AT PUMP BY OTHERS
4	STRUCTURAL STEEL BUILDING COLUMN.
5	8°D X 4°H X 16°W BURNISHED C-BRICK WALL (BOARDMAN COLOR W/ ACME SHELD IWR: 97H SUPER BLACK GROUT)
6	VENDOR WILL PROVIDE THERE OWN STRUCTURAL COLUMNS AND FOOTINGS AS THIS IS NOT PART OF THESE PLANS, PLAN WAS DESIGNED TO BE 12" COLUMN AS THIS INFO WAS PROVIDED BY THE OWNER.

PROJECT:

MUG & JUG GAS STATION

ADG DESIGN STUDIO 189 E BIG BEAVER ROAD SUITE 200 TROY, MICHIGAN 48083 P. 248-254-3834 W.ABRODESIGNGROUP.COM

**DESIGN STUDIO** 

- BUILDING SHELL & INTERIORS -

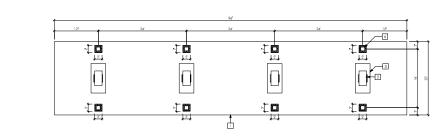
4162 TWELVE MILE ROAD, BERKLEY, MI, 48072

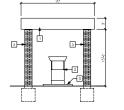
SHEET TITLE:

GAS PUMP CANOPY PLAN, ELEVATIONS AND DETAILS

USE FIGURED DIMENSIONS ONLY







NORTH AND SOUTH ELEVATION AT PUMP CANOPY SCALE: 1/8" = 1'40"

north

GAS PUMP CANOPY PLAN

SCALE: 1/8" = 1'-0"

0 7 8 8 16

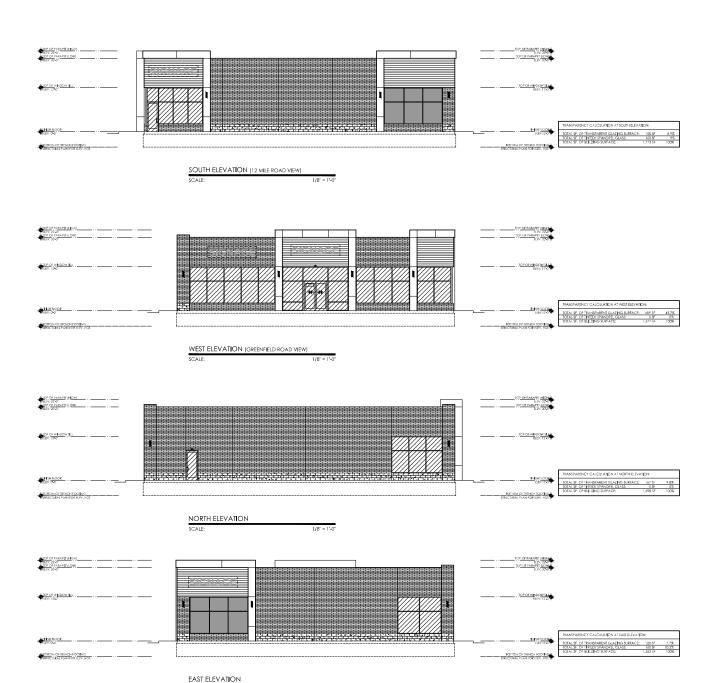
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SHEET NO:

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A-0.15



SCALE:

CILATING SYMBOL KEP:

TRANSPARENT GLATING:

TINTED/ SPANDREL GLASS:



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PROJECT:

MUG & JUG GAS STATION

- BUILDING SHELL & INTERIORS -

4162 TWELVE MILE ROAD, BERKLEY, MI, 48072

SHEET TITLE:

EXTERIOR
BUILDING
ELEVATIONS GLAZING
CALCULATIONS

DO NOT SCALE DRAWINGS

DATE: ISSUE:
03:20:25 57A

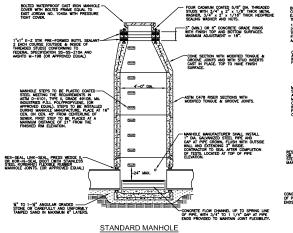
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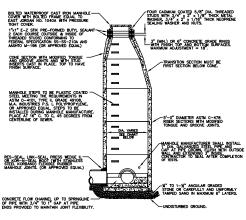
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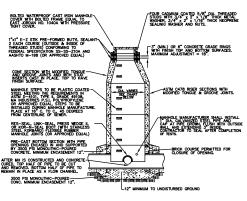
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MAX, PIPE SIZE FOR MAX, PIPE SIZE FOR STRAIGHT THRU INSTALLATION RIGHT ANGLE INSTALLATION



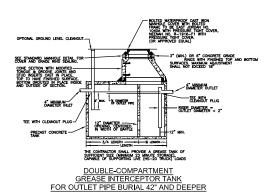


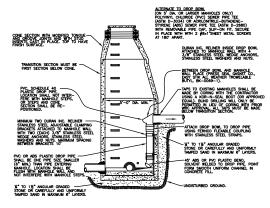
### MANHOLE CONSTRUCTED OVER EXISTING SEWER

MANHOLE SIZING CHART		
MANNEYER	MAX. PIPE SIZE FOR STRAIGHT THRU INST.	
*	24*	
5'	36*	
6'	42"	
7*	60"	

### STANDARD OVERSIZED MANHOLE

MANHOLE SIZING CHART			
MANIEPER	MAX. PIPE SIZE FOR STRAIGHT THRU INST.	MAX. PIPE SIZE FOR RIGHT ANGLE INST.	
5'	36°	24*	
6,	42*	36*	
7*	an*	42*	





INTERIOR DROP CONNECTION

### SANITARY SEWER CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECEPATIONS OF THE LOCAL UNIT OF COMERNMENT AND THE WATER RESORRESS COMMISSIONER (WRICK). ALL SHARINFF STERME CONSTRUCTION SHALL HAVE FULL-TIME RESPECTION SUPERINSED BY A STATE OF MICHARIA LICENSED PROFESSIONAL ENGINEER PROVIDED BY, OR CAUSED TO BE PROVIDED BY, THE LOCAL WINT OF COMERNMENT.
- 2. AT ALL COMMETCIONS TO WISC SERVERS OF EXTENSIONS, AND BETORE START OF CONSTRUCTION, THE CONTRACTOR MATS GREAN A SERVER INSECTION FEBRUT DISAUDE BY MEC. CONVITY SERVER PERMIT CHANGES AND \$250 FOR MATCH CONTRACTOR MATCH SERVER PERMIT CHANGES AND \$250 FOR MATCH SERVER PERMIT CHANGES AND \$250 FOR MATCH SERVER PERMIT CHANGES AND \$250 FOR \$250 LV. AT CONTRACTOR WITH METAL PERMIT CHANGES PERMIT PERMIT CHANGES AND TEST SERVER PERMIT CHANGES AND \$250 FOR \$250 LV. AT CONTRACTOR SHALL ASSO HAVE FORCE SHOPPICE. THE CONTRACTOR SHALL ASSO HAVE FORCE SHOPPICE THE CONTRACTOR SHALL ASSO HAVE FORCE WITH METAL AS \$5,000 SUBJECT NORM AND \$500 CASH DEPOSIT. THE CONTRACTOR SHALL ASSO HAVE FORCE WITH METAL \$5,000 SUBJECT NORM AND \$500 CASH DEPOSIT. THE CONTRACTOR SHALL NOTIFY THE LOCAL UNIT OF DOCUMENTATION AND \$600 FORCE ASSOCIATION OF ANY CONSTRUCTION. FINAL ACCEPTANCE TESTS MAST SE WITHESSED BY COUNTY PERSONNEL, NORM MIST SE SCHEDULED BY MANUFALITY OR IT'S CONSULTANT IN ADVANCE WITH 24 HOUR NOTICE AT 264-856-1100.
- 3. NO SERE INSTALLATION SHALL HAVE AN INPLITATION EXCEEDING TOO GALLONS PER INCH DAMETER PER MILE OF PIPE IN A 24 HOUR PEROON, AND NO SINGLE RING OF SEREE RETHER MANHOLES SHALL DECEDE TOO GALLONS PER INCH DAMETER PER MILE AR TESTS IN LIEU OF INFLITATION TESTS SHALL BE AS SPECIFIED IN THE WATER RESOURCES COMMISSIONES TRANSMOST. ONLY PIPE AND PIPE VANISH PRIVING HIS WING MAY BE.
- 4. LOCATED IN THE FRIST MANHOLE UPSTREAM FROM THE POINT OF ALL CONNECTIONS TO AN DISTING WIRC SEMER, OR EXTENSION THERETO, A TEMPORARY 12-MICH DEEP SUAP SHALL BE FROMDED IN THE FIRST MANHOLE ADDRESS THE CONNECTION WHICH WILL BE HELD IN AFTER SUCCESSION, COMMENTION OF ANY ACCEPTANCE TISTS UP TO THE STROMAGO FALLEY PROVIDED FOR THE FLOW CHANNEL. A MATERITIONT BULGREDO SHALL BE PROVIDED ON THE CONNICTIONAL SEC. OF THE SUAP MANICLE.
- 5. AT ALL TIMES WHEN LATING OF NEW PIPE IS NOT ACTUALLY IN PROGRESS, THE UPSTREAM OPEN END OF THE PIPE SHALL BE CLOSED BY TEMPORARY INNERTIGHT PLUGS OR BY OTHER APPROVED MEMS. IF INNER IS IN THE TRENCH WHEN MOOK IS RESAMED, THE PLUG SHALL NOT BE REMOVED UNTIL THE DAMAGER OF WATER ENTERING THE PIPE MAS PASSED.
- 6. ALL BUILDING LEADS AND RISERS SHALL BE SIX INCH SDR 23.5 ABS PIPE WITH CHEMICALLY FUSED JOINTS OR AN APPROVED EQUAL PIPE AND JOINT, BUILDING LEADS TO BE FURNISHED WITH REMOVABLE ARTIGHT AND WATERTIGHT STOPPORS.
- ALL RIGID SEWER PIPE SHALL BE INSTALLED IN CLASS "B" BEDDING OR BETTER. ALL FLEXIBLE, SEMI-FLEXIBLE, C COMPOSITE SEWER PIPE SHALL BE INSTALLED IN CONFORMANCE TO WRG SPECIFICATIONS.
- 8. AL INST MANAGES SHALL HAVE WER APPROVED FLORIDE. MATERIANT SEAS WHERE PRES THROUGH MALE, MANAGES SHALL BE OF PRE CAST SECTIONS WITH MODER DROVOW TOWNED AND REMBER SHEET THE JUNIST PRE CAST MANAGE CASE SECTIONS SHALL BE WISC APPROVED MODIFIED ECCENTRIC CONE TYPE. ALL MANAGES SHALL BE PROVIDED WITH SOLITE. MATERIANT CAST SHALL SHA
- AT ALL CONNECTIONS TO MANHOLES ON WRC SEWERS, OR EXTENSIONS THERETO, DROP CONNECTIONS WILL BE REQUIRED WHEN THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 18 INCHES.
- 10. TAPS TO EXISTING MANHOLES SHALL BE MADE BY CORING. THE CONTRACTOR SHALL PLACE A KOR-N-SEAL BOOT (OR WRG APPROVED EQUAL) AFTER CORING IS COMPLETED. BLIND DRILLING WILL ONLY BE PERMITTED IN LIEU OF CORING WITH PRIOR WRG APPROVAL.
- 11. MANHOLES CONSTRUCTED DIRECTLY ON WIRC SEWERS SHALL BE PROVIDED WITH COVERS READING
- 12. NO GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWN SPOUT DRAINAGE OR WEEP TILE DRAINAGE SHALL BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.
- 13. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL TELEPHONE MISS DIG (800-482-7171) FOR THE LOCATION OF UNDERGOUND PIECLINE AND CHALE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE WORNLY OF THE WORK.
- 14. AN 18 INCH MINIMUM VERTICAL SEPARATION AND A 10 FOOT MINIMUM HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN SANITARY SEWER AND WATER MAIN.
- 15. NEW MANHOLES BUILT OVER AN EXISTING SANITARY SEWER SHALL HAVE MONOLITHIC POURED BOTTOMS.
- 16. IF THE STRUCTURE FALLS WITHIN THE ROADBED OF A GRAVEL ROAD OR WITHIN THE UNPAVED SHOULDER OF A PAVED ROAD, THE COVER SHALL BE SIX (6") INCHES BELOW THE FINISHED GRAVEL SURFACE.

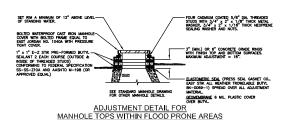
	ORIG DATE:	
SANITARY SEWER DETAILS AND NOTES	SCALE:	NC
	DESIGNED BY:	
	DRAWN BY:	WRC

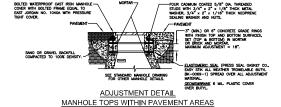


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ONE PUBLIC WORKS DRIVE, BLDG 95 WE WATERFORD, MICHIGAN 48328-1907	15
SHEET NO.:	

1 of 2



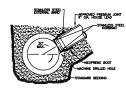






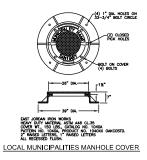
- ALL BUILDING LEAD WORK MUST BE PERFORMED UNDER WATER RESOURCES COM (WRC) AND/OR LOCAL UNIT OF GOVERNMENT INSPECTION.
- FOR ALL WRC-OPERATED SYSTEMS, CALL 248-858-1110 24-HOURS IN ADVANCE OR WORK TO SCHEDULE INSPECTION.
- 3. NO SANITARY SEWER MAY BE USED AS A CLEANOUT OF DEWATERING OUTLET.

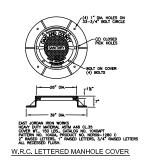
- 8. ALLOWABLE TYPES OF SEMER PIPE ADAPTERS: A. FERNOD ADAPTER/MEDUCER DONITS. B. FERNOD HUBBLE COULDED COMPUNG. C. BORGO, C.

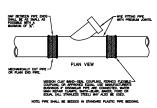


- APPROVED PREMIUM JOIN 6 DIA HOUSE LEAD.

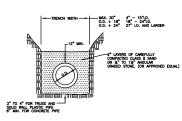
KOR-N-TEE TAP FOR CONCRETE PIPE







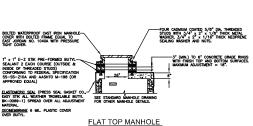
WYE PIPE INSERTION WITH FLEXIBLE COUPLINGS (RIGID PIPE)

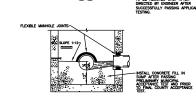




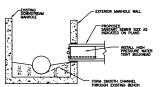


STANDARD BEDDING (CLASS B)





-3/4" TO 1%" GAP TO BE PROVIDED TO MAINTAIN JOIN FLEXIBILITY.



TESTING BULKHEAD WITH PIPE TAP

HOUSE LEAD DETAIL

ALL HOUSE LEAD PIPE TO BE WRC APPROVED MATERIAL AND JOINT. PLACE PIPE AGAINST UNDISTURBED GROUND, BACK FILL WITH CARE TO AVOID SETTLEMENT

SUMP MANHOLE FOR TEST	NG,
CLEANING AND DEWATERIN	VG

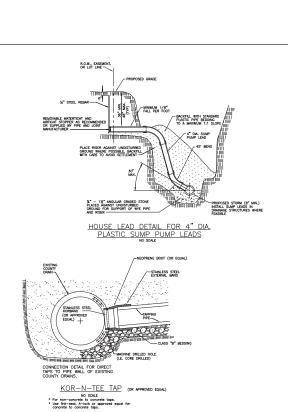
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Parce	arcel Base / Source Date: NV.					
	Rev.		Description:			
No.:	By:	Date:	Description:			
1	DS	06/28/06	дерев тектріб виличело міти путе тим ретти.			
2	Ħ	05/28/00	MOVED DITTALS FROM SHIRET 1 DATO SHIRET 2			
2	Ħ	07714/09	STANDARDS CONNITTEE APPROVAL FOR DETAIL CHANGES			

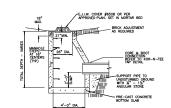
SANITARY SEWER DETAILS AND NOTES
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ORIG. DATE:	05-09-03	
SCALE:	NO SCALE	
DESIGNED BY:	MWD	
DRAWN BY:	Mapping Staff	

9-03	THE LAND CO.
ALE	3 WKC
WD	self-totacti consum
Staff	(to the

ONE PUBLIC WORKS DRIVE, BLDG 95 WEST WATERFORD, MICHIGAN 48328-1907
SHEET NO.:





PRE-CAST TEE MANHOLE DETAIL

PRE-CAST CATCH BASIN DETAIL

EU-EURURE S

END VIEW

-E.J.I.W. FRAME 1040 OR PER APPROVED PLAN WITH SOLID COVER, WRC LETTERING SET IN MORTAR BED

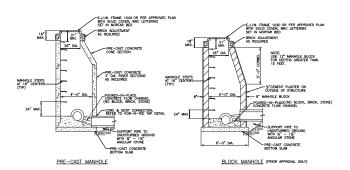
PRE-CAST CONCRETE MANHOLE TEE SECTION WITH 4" DIA.

BED TEE MANHOLE SECTION IN 2500 P.S.I. DRY MIX CONCRETE

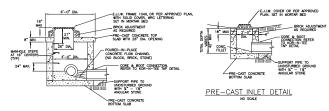
PRE-CAST CONCRETE
4 DIA. RISER SECTIONS
AS REQUIRED

Z1 MIN.

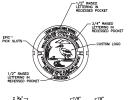
MANHOLE STEPS AT 16" CENTERS



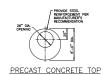
STANDARD MANHOLE DETAILS



PRE-CAST LOW HEAD MANHOLE DETAIL NO SCALE



LETTERED MANHOLE COVER FOR WRC



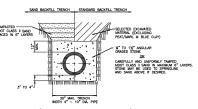
MDOT CLASS II SAND PLACED IN 6° LAYERS

CLASS "B" BEDDING TRENCH DETAIL FOR 24" DIAMETER AND SMALLER CONCRETE PIPE



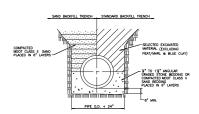
PROFILE VIEW END SECTION AND BAR SCREEN DETAIL

GRATES FOR END SECTIONS, BARS ARE TO BE CUT OFF AT EDGE OF END SECTION,



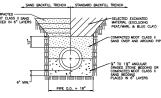
ABS (TRUSS AND SOLID WALL), PVC (TRUSS, SOLID WALL, A2000), ADS N-12 WT PIPE BEDDING DETAIL

PLAN VIEW



CLASS "B" BEDDING TRENCH DETAIL FOR 27" DIAMETER AND LARGER CONCRETE PIPE





### GENERAL NOTES

- Type and class of pipe shall be as specified on plans.
- Class "B" bedding shall be used throughout, unless otherwise specified on the plan.
- Standard rip-rap shall be 8"-15" fragmented rock, heavy rip-rap shall be 16"-24" fragmented rock. (No Broken Co
- MANHOLE REQUIREMENTS:
- to Asiak U-4/a specinications.
  All new cotch bosins, inlets, and manholes shall have WRC approved flexible, watertight seals where pipes pass through wal Manholes shall be of precast sections with modified groove tangue and nubber gasket type joints. Per cast manhole consections shall be WRC approved modified ecentric cone type.
- prohibited unless otherwise approved.

  Morhole steps to be plastic cooled steel meeting the requirements in ASTM D 2146, Type II, Grade 49108, MA. Industries P.S.I. Polypropylene, (or approved equal). Steps to be installed during manhole manufactur Place at 16° centers 45° from centerline of sewer.
- Cone section with modified groove tongue joints and with stud inserts cast in place. Top to have flush surface.
- ASTM C-478 riser section with modified groove tongue joints. Res-seal, link-seal, press wedge II, or kor-n-seal boot (with stainless steel korband) flexible rubber manhole joints. (or approved equal).
- The inside joints of manholes, catch basins, and pipe sizes over 42" and larger in diameter shall be pointed up with mortar upon completi of backfilling.

### CONCRETE PIPE REQUIREMENTS:

- JAMMASIL PITC INSURPRIENTS

  Concrete pipe to be per ASTM C76 stondards.

  The Bornated pipe to be per ASTM C76 stondards.

  The Bornated pipe of the processor of the pipe of th

- SUMP PUMP LEAD REQUIREMENTS:

   All sump pump leads connected to a County Drain pipe pre-manufactured.
- pre-manufactured.

  Sump pump loads connected to a manhole shall be cored and booted. Refer to Kort-N-Tee Tag Detail.

  Sump pump minis and leads shall be ABS (russ and sold wall), PVC (truss, solid wall , A2000), ASS (Sun-12 Win with premium joints.

- Ends of all 4" sump pump leads shall be temporarily capped and their location staked, witnessed and recorded.
- All sump pump leads to be taken to the property line, easement line or as indicated on the plan.
- Sump pump mains must have a cleanout with a minimum inside diameter of 24" and be constructed at changes of alignment, ends of sump pump mains or as indicated on the plan.

- All disturbed area within the County Drain right-of-way shall be restored as follows:
- be restored as follows: Under roots, sitespain, driversy and porting oress, boddfill moterial shall be pieced loosely into fresches in Sk (5) with layers with each layer by the control of the control o

Slopes and Ditch, M.D.O.T. "Roadside Mix"
Banks, Etc.
Turf Seed Mixture TGM
(10% Kentucky Blue, 20%
Perennial Rye, 30% Hard
Fascue, 40% Creeping Red
Fascue) applied at 220 lb/acre M.D.O.T. Seeding and Sodding Fertilizers, Class A

M.D.O.T. Roadside Mix Turf Seed Mixture THM (30% Kentucky Blue, 20% Perennial Rye, 50% Creeping Red Fescue) applied at 220 lb/acre

- Sod is required in maintained lawn areas, Refer to WRC General Specifications for additional requirements and information apply strow or marsh hay mulch in an air-day condition to all areas over the surface to a uniform thickness at 2 tons/acre.
- mulch shall be anchored in place with biodegradable netting, not larger than 1% by  $2^\circ$  nor smaller than % by  $\%^\circ$ . The contractor shall be responsible to insure the growth of all seeded areas, and shall re—seed as necessary to accomplish this.
- The Storm Drain Notes and Details Sheet shall be a supplement to WRC Standards and Specifications, which are available on the WRC website (www.oskow.com/water).



IVISION BLOCK								
da Source / Source Date: NA								
	Rev. Ry:	Rev. Date:	Descriptions					
	H	313.99	PROPOSED DETAIL CHANGES / NEW LOCK					
	E		APPROVAL PER STANDARDS COMMITTEE					
	F	05/29/13	RANGERO 164 COVER DETAIL.					
	0.5	04/27/10	REVESTO CENTRAL NOTES					
RIG DATE:			05/05/97	Market and the second	ONE PUBLIC WORKS DRIVE BLDG 95 WEST			
CALE:			NONE	MAKE	WATERFORD, MICHICAN 48328-1907			
ESIGNED BY:		ED BY;	WRC	Andrew Control	SHEET NO.: 1 of 1			
RAWN BY:		BY;	Mapping					